



2011 Recommended Projects

<i>Project No</i>	<i>Project Title, Summary</i>	<i>Grantee Organization</i>	<i>PI Surname</i>	<i>Requested</i>	<i>Grant</i>
<i>Web ID #</i>					
401 1005046	Reducing Corridor Connectivity to Reduce Plant Invasions Marcellus shale exploration is connecting areas via pipeline networks. Plant monitoring data from a related project, network theory and population models will be applied to key invasive plants to inform management of road and pipeline networks.	The Pennsylvania State University	Rauschert	\$33,321.	\$29,190.
403 1005048	Critical Review of PSU and PA Fish and Boat Commission Fish Survey Data Review, correct errors, and reformat fish survey databases managed by Penn State, PA Fish and Boat Commission, and in the PNDI database. Data will be expressed in GIS format.	The Pennsylvania State University	Stauffer, Jr.	\$46,309.	\$41,840.

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405 1005062	Status of Pennsylvania's Burrowing Crayfish Fauna: Distributions, Threats, and Changes over the Last Century Conduct surveys of historical sites, search for new sites, develop sampling protocols, estimate changes in populations and distribution, and assess threats to Pennsylvania's burrowing crayfish.	Western PA Conservancy	Lieb	\$50,680.	\$46,700.
409 1005084	Monitoring the Hemlock Woolly Adelgid in Pennsylvania: Characterization of Cold Tolerance and Overwintering Physiology Establish a state-wide monitoring network to characterize the abiotic microhabitat conditions of the adelgid and investigate the cold tolerance and overwintering physiology of this invasive insect.	Mercyhurst College	Elnitsky	\$32,710.	\$29,190.

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415 1005132	Patterns of Bird Use of the Lake Erie Shoreline Region in Pennsylvania Compile information on the timing and spatial patterns of bird usage of near-shore and onshore regions to inform siting decisions and reduce the negative impacts of offshore wind farms. Data from radar, acoustic monitoring, and banding will be used to determine when and where the highest densities of migrating birds occur.	National Audubon Society, Inc.	Sargent	\$89,690.	\$72,963.
417 1005138	Bird Community Response to Marcellus Shale Development - Year 2 Assess local and landscape scale changes to bird communities associated with well pads, roads, and pipelines in north-central PA. Compare avian abundance and distribution associated with traditional forest roads with those built for Marcellus gas extraction. Compare local effects of Marcellus wells with effects of traditional shallow gas wells.	The Pennsylvania State University	Brittingham	\$38,379.	\$36,000.

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420 1005154	Monitoring the Response of Allegheny Woodrat Populations to Habitat Management Strategies in PA Evaluate the impact of habitat management and best management practices on vegetative response and Allegheny woodrat populations at the site level as well as on the long-term viability of the larger woodrat population.	IUP Research Institute	Duchamp	\$43,406.	\$38,920.
421 1005155	2012 Glacial Fen Stewardship and Private/Public Landowner Contact Program Glacial fens in NW PA may be impacted by invasive species or inadvertently damaged by their owners if the owners are not informed about the significance of this natural community. The museum will contact owners of high quality fens to discuss and conduct appropriate stewardship of their properties.	Cleveland Museum of Natural History	Bissell	\$20,910.	\$19,460.

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423 1005157	Engaging the Pennsylvania Landowner in Survey of Special Concern Species: Phase One - Establishing a Grassland Raptor Citizen Science Network <p>Several grassland raptors are species of concern in PA, but their secretive nature has made it difficult to effectively determine and monitor their status. Using outreach, training, and web-based learning tools, this project will recruit farmers to become part of a landowner-citizen science network. The information they collect will become part of a web database that can be used by conservation biologists.</p>	Hawk Mountain Sanctuary Assn.	Goodrich	\$46,735.	\$38,920.
424 1005158	Thousand Cankers Disease: Monitoring Program and Predictions for Pennsylvania's Forests <p>Implement a monitoring plan for the invasive Thousand Cankers Disease, which affects black walnut and butternut trees. The work will include sampling from high priority areas, predictive modeling of its spread, threat assessment, and development of a statewide citizen science monitoring network.</p>	Juniata College	Muth	\$36,423.	\$32,109.

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426 1005161	Red Spruce Restoration in Pennsylvania: Habitat Restoration for Northern Flying Squirrels and other Conifer-dependent Wildlife Species of Conservation Concern <p>Implement a red spruce restoration program, modeled on one completed in WV that includes collecting seeds, growing seedlings, and planting in selected parts of their historic range in PA. Restoration of red spruce will expand habitat for northern flying squirrels and other conifer-dependent species.</p>	Pennsylvania State University	Mahan	\$44,557.	\$38,920.
432 1005166	Pennsylvania Amphibian Reptile Survey <p>Conduct a systematic statewide amphibian and reptile atlas project to collect critical baseline data, including historical data from museums, universities, the natural heritage program, and more. This grant will provide matching funds to a large federal SWG grant.</p>	Mid-Atlantic Center for Herpetology and Conservation	Ruhe	\$35,190.	\$33,080.

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433 1005167	Bog Turtle Recovery and Habitat Restoration in Pennsylvania Develop a comprehensive database and fill in distribution gaps for the state's bog turtle population. The data will be used to assess the turtle's status in PA, create long-term monitoring sites, and to develop an integrated and holistic restoration program tied to the U.S. Fish and Wildlife Service's recovery plan.	Mid-Atlantic Center for Herpetology and Conservation	Ruhe	\$46,920.	\$43,785.
434 1005168	Assessment of the Impact of Habitat Restoration and Management Practices on the Eastern Massasauga Rattlesnake Implement and monitor habitat restoration for the endangered Eastern Massasauga rattlesnake. Determine if the restored habitat can be utilized by the Massasauga for foraging, thermoregulation, reproduction, and overwintering.	Mid - Atlantic Center for Herpetology and Conservation	Reinert	\$39,092.	\$36,000.

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437 1005175	Establishing Native Plants in the Presence of Invasive Annuals This project will evaluate how much intervention is necessary when establishing native perennials along pipelines colonized by stiltgrass or mile-a-minute. The need for invasive suppression will be evaluated using predictive modeling and test plots.	The Pennsylvania State University	Mortensen	\$31,664.	\$28,215.
438 1005176	Clarification of Taxonomy and Conservation Status of PNHP-tracked Amelanchier Species in Pennsylvania Conduct field and herbarium research on the species of the genus Amelanchier in PA, five of which are listed as species of special concern in the state. This will help to clarify which species occur in PA, their distribution, and permit assignment of appropriate conservation statuses.	Morris Arboretum of the University of Pennsylvania	Block	\$31,886.	\$29,190.

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439 1005177	Characterization and Climate Change Impact Assessment of the Environments Inhabited by Pennsylvania Forest Plant Communities <p>Characterize climatic and soil characteristics under which PA forests occur by developing a bioclimatic model that addresses local environmental characteristics. Assess potential climate change impacts on these communities by entering future climate predictions into the model.</p>	The Pennsylvania State University	Leites	\$81,233.	\$63,240.
442 1005181	Captive Rearing of the Regal Fritillary Butterfly from Fort Indiantown Gap National Guard Training Center in Annville, PA <p>Raise regal butterflies in a laboratory setting from individuals captured in the wild at Fort Indiantown Gap (the last population remaining in the eastern U.S.). Once they have been successfully reared, they will be transported to selected Pennsylvania sites for repatriation.</p>	The Pennsylvania State University	Bacastow	\$55,800.	\$43,785.

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443 1005182	Identification and Monitoring of the Sand Dune-Obligate Spider, <i>Geolycosa wrighti</i> Spiders from the genus <i>Geolycosa</i> are rare arachnids found in loose sandy soil along the Great Lakes. This project will involve censusing and monitoring <i>Geolycosa wrighti</i> and other ground-dwelling spiders found at Gull Point, an ecologically dynamic area at Presque Isle State Park.	Edinboro University of Pennsylvania	Foradori	\$653.	\$653.
445 1005183	Monitoring to Assess Impacts of Climate Change on Vulnerable Species and Habitats in PA Assess the vulnerability of 25-30 plant species to climate change using the NatureServe Climate Change Vulnerability Index. Develop monitoring protocols for these species and identify specific locations to test these protocols.	Carnegie Institute	Morton	\$38,301.	\$34,055.

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448 1005188	Recruiting the Next Generation of Citizen Scientists: Pennsylvania's First Junior Migration Counter and Schoolyard Migration-watch Program	Hawk Mountain Sanctuary Assn.	Goodrich	\$51,076.	\$43,785.
	Launch a pilot project engaging middle school and high school students in citizen science. Work with hawk-watch sites to mentor youth in identification and data collection of raptor migration. Maintain their interest and involvement using a web-based data entry and learning tool system.				
					\$780,000.



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					\$251,683.